



AmazingDevOps

## **Java Spring Boot**

### **What is Java Spring Boot?**

Java Spring Framework (Spring Framework) is a popular, open source, **enterprise-level framework for creating standalone, production-grade applications that run on the Java Virtual Machine (JVM).**

Java Spring Boot (Spring Boot) **is a tool that makes developing web application and microservices with Spring Framework faster and easier through three core capabilities:**

1. Autoconfiguration
2. An opinionated approach to configuration
3. The ability to create standalone applications

These features work together to provide you with a tool that allows you to set up a Spring-based application with minimal configuration and setup.

### **Java Spring Boot Simple Application**

<https://github.com/joshking1/spring-boot-mongo-docker.git>

### **POM is an XML**

POM is an XML file that contains the project configuration details used by Maven. It provides all the configurations required for a project. POM means Project Object Model, and, as the name suggests, it defines the model of the project as well.

POM stands for Project Object Model. It is a fundamental unit of work in Maven. It is an XML file that resides in the base directory of the project as pom.xml.

The POM contains information about the project and various configuration details used by Maven to build the project(s).

POM also contains goals and plugins. While executing a task or goal, Maven looks for the POM in the current directory. It reads the POM, gets the needed configuration information, and then executes the goal. Some of the configuration that can be specified in the POM are following –



- project dependencies
- plugins
- goals
- build profiles
- project version
- developers
- mailing list

Before creating a POM, we should first decide the project **group** (groupId), its **name** (artifactId) and its version as these attributes help in uniquely identifying the project in repository.

1	<b>Project root</b>  This is project root tag. You need to specify the basic schema settings such as apache schema and w3.org specification.
2	<b>Model version</b>  Model version should be 4.0.0.
3	<b>groupId</b>  This is an Id of project's group. This is generally unique amongst an organization or a project. For example, a banking group com.company.bank has all bank related projects.
4	<b>artifactId</b>  This is an Id of the project. This is generally name of the project. For example, consumer-banking. Along with the groupId, the artifactId defines the artifact's location within the repository.



4	<p><b>artifactId</b></p> <p>This is an Id of the project. This is generally name of the project. For example, consumer-banking. Along with the groupId, the artifactId defines the artifact's location within the repository.</p>
5	<p><b>version</b></p> <p>This is the version of the project. Along with the groupId, It is used within an artifact's repository to separate versions from each other. For example –</p> <p><b>com.company.bank:consumer-banking:1.0</b></p> <p><b>com.company.bank:consumer-banking:1.1.</b></p>